

Quiet VGA Cooler

Model: VF700-Cu(AlCu)

Please visit our website and watch the VF700 installation video for easy installation.

- * Please read this manual thoroughly before installation.
- ** The specifications of this product and its components may change without prior notice to improve performance.

http://www.zalman.co.kr http://www.zalmanusa.com

Cautions on Use and Installation

- Please read this manual thoroughly before installation.
- 2. After installing this product on a VGA(Video Graphics Array) card, a PCI slot adjacent to the AGP (or PCIe) slot will become unusable.
- Should you install this product on a newly released VGA card, please check for compatibility at Zalman's website first.
- This product is not compatible with Matrox VGA cards and NVIDIA PCX 5*** VGA cards.
- 5. If the VGA card and its components interfere with the installation of this product, stop the installation, refer to the list of compatible VGA cards at Zalman's website and install this product with one of the compatible VGA cards.
- To enhance the performance of this product, using a rear case fan is recommended.
- Zalman is not responsible for any problems arising from incorrect installation.
- 8. Zalman Tech Co., Ltd. is not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

Product Features

- 1. Pure copper and/or aluminum ensures excellent heat dissipation.
- 2. Fan installed in the heatsink (FHS) cools not only the VGA chipset and VGA RAM, but all other VGA components as well.
- 3. Does not generate noise or vibration in Silent Mode.
- 4. Silent Mode and Normal Mode selection provided to accommodate the user's environment and preference.

Specifications

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	VF700-AlCu	VF700-Cu
Weight (g)	180	270
Cooling Material	Pure Aluminum+Pure Copper	Pure Copper
Dimensions (mm)	91(L) x 126.4(W) x 30(H)	

2. Fan

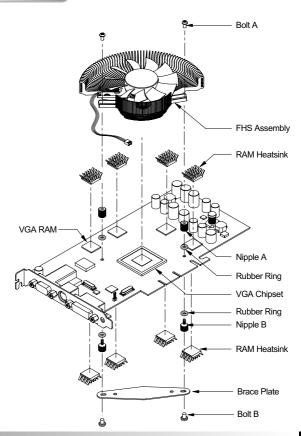
- Size: 80(L) x 80(W) x 15(H)mm
- Bearing Type: 2-Ball
- Speed: 1.350rpm ± 10%(Silent Mode), 2.650rpm ± 10%(Normal Mode)
- Noise Level: 18.5dB ± 10%(Silent Mode), 28.5dB ± 10%(Normal Mode)

Components

- FHS Assembly
- 2. Eight (8) RAM Heatsinks

- 3. One (1) Brace Plate 4. Two (2) Nipple 'A' 5. Two (2) Nipple 'B' 6. Four (4) Bolt 'A' (Ø 3 x 5mm) 7. Four (4) Bolt 'B' (Ø 4 x 4mm) 8. Six (6) Rubber Rings 9 Thermal Grease 10. One (1) Multi-Connector 11 User's Manual

Exploded View



Installation Procedure

* The following installation sequence MUST be followed.

(Nipple A and B → Brace Plate → VGA RAM Heatsinks → Thermal Grease Application → VGA Cooler

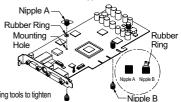
→ VGA Card → Supply Power)

1. Install the Nipples 'A' and 'B'

Check VGA card for compatible installation hole positions.

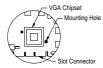
Install nipple 'A' and nipple 'B' on the heatsink Mounting Holes as shown in the diagram. Remember to use rubber rings in between.

Notes) The Nipples MUST be tightened by hand. Using tools to tighten the nipples may break the tip of the nipples.



Nipple Installation Holes for Various VGA Cards

The Nipples must be installed through the mounting holes indicated with black holes (●) as shown in the diagram.



ATI Radeon 9 *** Series ATI Radeon X*** Series NVIDIA Geforce4 MX Series NVIDIA Geforce FX 5200

NVIDIA Geforce FX 5500 NVIDIA Geforce EX 5600(EX 5700)

VGA Chipset Mounting Hole Slot Connector NVIDIA Geforce4 Ti 4 *** Series

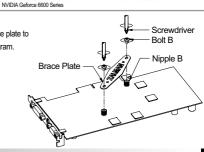
NVIDIA Geforce FX 5700(Ultra) Series NVIDIA Geforce FX 5800 Series NVIDIA Geforce FX 5900 Series NVIDIA Geforce FX 5950 Series

VGA Chipset Mounting Hole Slot Connector NVIDIA Geforce 6800 LE Series

NVIDIA Geforce 6800 Series NVIDIA Geforce 6800 GT Series NVIDIA Geforce 6800 Ultra Series NVIDIA Geforce 6800 Ultra Extreme

2. Install the Brace Plate

Use each Bolt B to attach the brace plate to each Nipple B as shown in the diagram.



3. Attach the VGA RAM Heatsinks

Remove the film from the thermal tapes on the bottom of the RAM Heatsinks and attach the heatsinks on the VGA RAM.

Note 1) If thermal grease or other residue remains on the RAM, the thermal tapes will not stick. Clean the surface of the RAM with acetone or alcohol before attaching.

Note 2) The bonding strength of the thermal tapes reaches 90% after 24 hours of curing. Do not put excessive force on the RAM heatsinks during this period.

Note 3) Thermal tapes lose adhesiveness after it has been used for attachment once and cannot be reused. Purchase thermal tapes separately should you try again.

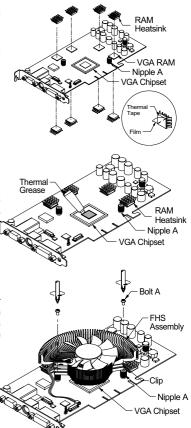
4. Apply Thermal Grease

Clean the contact surface of the VGA Chipset completely. Apply thermal grease on the VGA Chipset that makes contact with the base of the FHS assembly.

5. Install the FHS Assembly

Align the FHS assembly's base on the center of the VGA Chipset. Screw each Bolt A on each Nipple A slightly, and tighten each Bolt A a few turns at a time, alternating between each bolt, until the clip is completely attached to each Nipple A.

Notes) Make sure that the heatsink's base and the VGA Chipset are completely in contact with each other.



6. Install the VGA Card

Install the VoA Card

Insert the assembled VGA card into the motherboard's AGP (or PCle) slot.

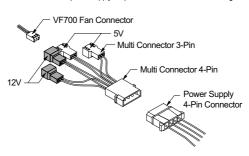
Use the Fixing Bolt to fix the VGA card on to the computer case.

If the VGA card has a power connector on it, remember to plug in the power cable.

Fixing Bolt

7. Supply Power to the Fan

Connect the Multi-Connector to the power supply's 4-pin connector as shown in the diagram.



	Silent Mode (5V)	Normal Mode (12V)
Speed	1,350rpm ± 10%	2,650rpm ± 10%
Noise	18.5dB ± 10%	28.5dB ± 10%

Zalman Noise Prevention Systems

When building a noiseless computer, use Zalman's Noiseless CPU Cooler, Noiseless Power Supply, Noiseless Case Fan, Noiseless Northbridge Cooler, and Heatpipe HDD Cooler for stable performance and a noiseless environment.



Ouiet CPU Cooler



Noiseless Power Supply



Fanless Northbridge Cooler



Heatpipe HDD Cooler



Noiseless Case Fan

TNN (Totally No Noise) Computer Case





The TNN 500AF is the world's first absolutely **noiseless, anti-dust computer case** for high-end systems that has been developed with Heatpipe Technology, HSC (Heat Source Contact) Power Technology, High Capacity Extrusion Technique, and FMS (Flexible Mounting Structure) Design Technology by ZALMAN Tech Co., Ltd.

The TNN 500AF package includes a high performance aluminum computer case with an absolutely noiseless cooling solution that does not require the use of a fan, making it ideal for:

- Digital Audio Workstations (DAW) in broadcasting, recording, and postproduction studio control rooms.
 Multi Media & Storage Servers for offices, educational facilities, and hotels.
- 3. Home Theater and Multi-Media Systems for living rooms.
- High Performance Noiseless Workstations & Servers for SOHO (Small Office Home Office) systems.
 For more information, please visit our website.